

ABSTRACT OF THE INVENTION

[0053] Disclosed is a silencer system configured to allow for thermal growth thereof while attenuating noise created by expansion of high-pressure fluid flowing therethrough. The silencer system comprises a tubular inner sleeve, a tubular flexible bellows, a tubular vent stack and a muffler disc. The inner sleeve has a sleeve inlet and a sleeve outlet. The inner sleeve is concentrically disposed in spaced relation within the bellows which is concentrically disposed in spaced relation within the vent stack. The bellows is configured to allow for axial and lateral movement of the inner sleeve relative to the vent stack when fluid passes through the silencer system to minimize excessive deflective forces and bending moments on the silencer system. The muffler disc is oriented relative to the sleeve outlet such that the high-pressure fluid impinges the muffler disc prior to creating shockwaves which may otherwise result in the production of high noise levels.

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